Monoclonal antibody to KSHV ORF45

Cat. #: Mab-604018

Description:
Kaposi's sarcoma-associated herpesvirus (KSHV) belongs to the gamma-(2)-herpesvirus subfamily and has been closely linked to the Kaposi's sarcoma, primary effusion lymphoma (PEL) and multicentric Castleman's disease. The genome of KSHV is 165-170 kb and contains at least 88 open reading frames. ORF45 protein encoded by an immediate-early gene in the KSHV genome is characterized as a phosphorylated protein, and it is localized in the cytoplasm of infected cells. Studies have shown that ORF45 Protein interacted with cellular IRF-7 and blocked virus-mediated phosphorylation and nuclear translocation of IRF-7. In consequence, ORF45 efficiently inhibited virus-induced production of type I IFN. Zhu et al (2003) reported that the ORF45 Protein was associated with purified virions

Clone Number: 2D4A5
Isotype: IgG1
Species KSHV
Storage and Stability: stored at -20 C

Immunogen/Specificity:
Ni-NTA purified recombinant human KSHV ORF45 expressed in E. Coli strain BL21 (DE3).

Applications :
Anti-KSHV recognizes recombinant human KSHV ORF45 by Western Blot and ELISA.
Dilution:
Western Blot: 1:500-1,000
ELISA: Determining optimal working dilutions by titration test.

Formulation
Crude ascites

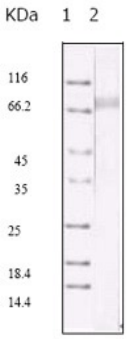

Figure 1: Western blot analysis using anti-KSHV ORF45 monoclonal antibody 2D4A5 against recombinant KSHV ORF45 expressed in E. Coli.

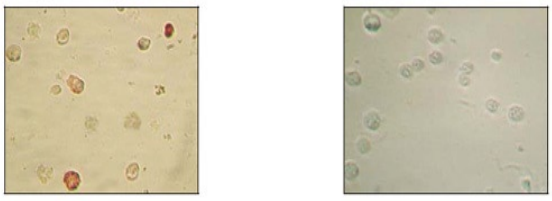

Figure 2: Immunochemistry staining of TPA-induced BCBL-1 cells and uninduced BCBL-1 cells, using monoclonal antibody 2D4A5 Clone to KSHV ORF45. HRP-anti-mouse was used as the second antibody before color development with DAB.

Reference:
1. Chang Y. et al. 1994. Science. 266:1865-1869
2. Zhu FX. et al. 2002. PNAS. 99: 5573-5578
3. Zhu FX. et al. J Virol. 2003. April (77): 4221-4230

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